PMA213
Air Traffic Control and Combat Identification Systems Program Office

Brief to:
Carrier ATRB Prep Meeting
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AIR 4.5.1.2 PMA 213 APMSE

NAVAIR

Air Traffic Control and Combat Identification Systems Program Overview

Shore Based

Marine Corps

Combat ID

Shipboard ATC

JPALS

56 Programs
7000 Systems Deployed

PMA213 Systems

Shore ATC Systems

AN/FAC-6 (FOIS)
AN/FPN-63 GCA/PAR
AN/FRN-36 (Non Directional Beacon)
AN/FSA-97 (VISCOM)
AN/FSC-104 (Emerg. Com Syst.)
AN/FSC-119 (IVCSS)
AN/FSC-127 (ETVS)
AN/FSN-7 (AFLCS)
AN/FYK-17 (FACTS)
AN/UYX-1 (BRANDS)
ARSR-4 (RADAR)
ASR-8 (AN/GPN-27 RADAR)
CV-3682/UPX (RBD)
MK-1 (ILS)
NAS MOD (Multiple Hardware)
- DASR (AN/GPN-30)
- VIDS (AN/FYC-22)
- DAAS (AN/FSQ-204)

PT-567/TPX-42 (Video Mapper)
Radios & Antennas HF/UHF/VHF
- (AN/GRR-21/22, AN/GRT-23/24, AM-6154, AM-6155)

Recorders / Reproducers
- (RD-379/379A/390, RP-214)

Digital Audio Data Recorder/Reproducer
STARCON
FDIO
AN/TPX-42(V)5/10
RML/TML/VIDEO COMPRESSION
Shore TACAN Systems/AN/URN-25

Combat ID

MK XII IFF
- AN/UPM-155
- AN/UPX-29 (AEGIS IFF)
- AN/UPX-37 (Digital Interrogator)
- AN/APX-117/118(Common Transponder)
- CICU
- Multiple AN/UPX Hardware

MK XIIA MODE 5
AN/SLQ-20B
AN/UPX-34 (SARTIS)
Auto ID
NATO Support
Shipboard TACAN Systems

Ship ATC Systems

AN/SPN-35B/C
AN/SPN-41/41A
AN/SPN-42T
AN/SPN-43C
AN/SPN-46(V) 1/3
AN/SSW-1
AN/TPX-42A(V) 12/13/14
AN/TRN-28

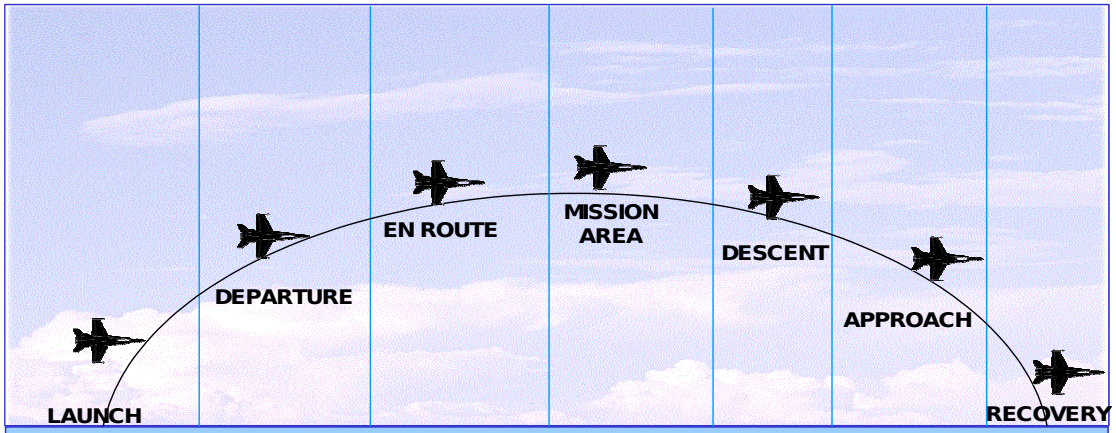
MATCALS

AN/TPN-22 PAR
AN/TPS-73 ASR
AN/TSQ-131 CCS
AN/TSQ-120 TOWER
AN/TSQ-216 RLST
AN/TRN-44 TACAN
AN/TPN-30A MRAALS
AN/TPY-1 ASPARCS
- AN/TPS-79 ASR
- AN/TPN-32 PAR
- AN/TSQ-230 OS/CS

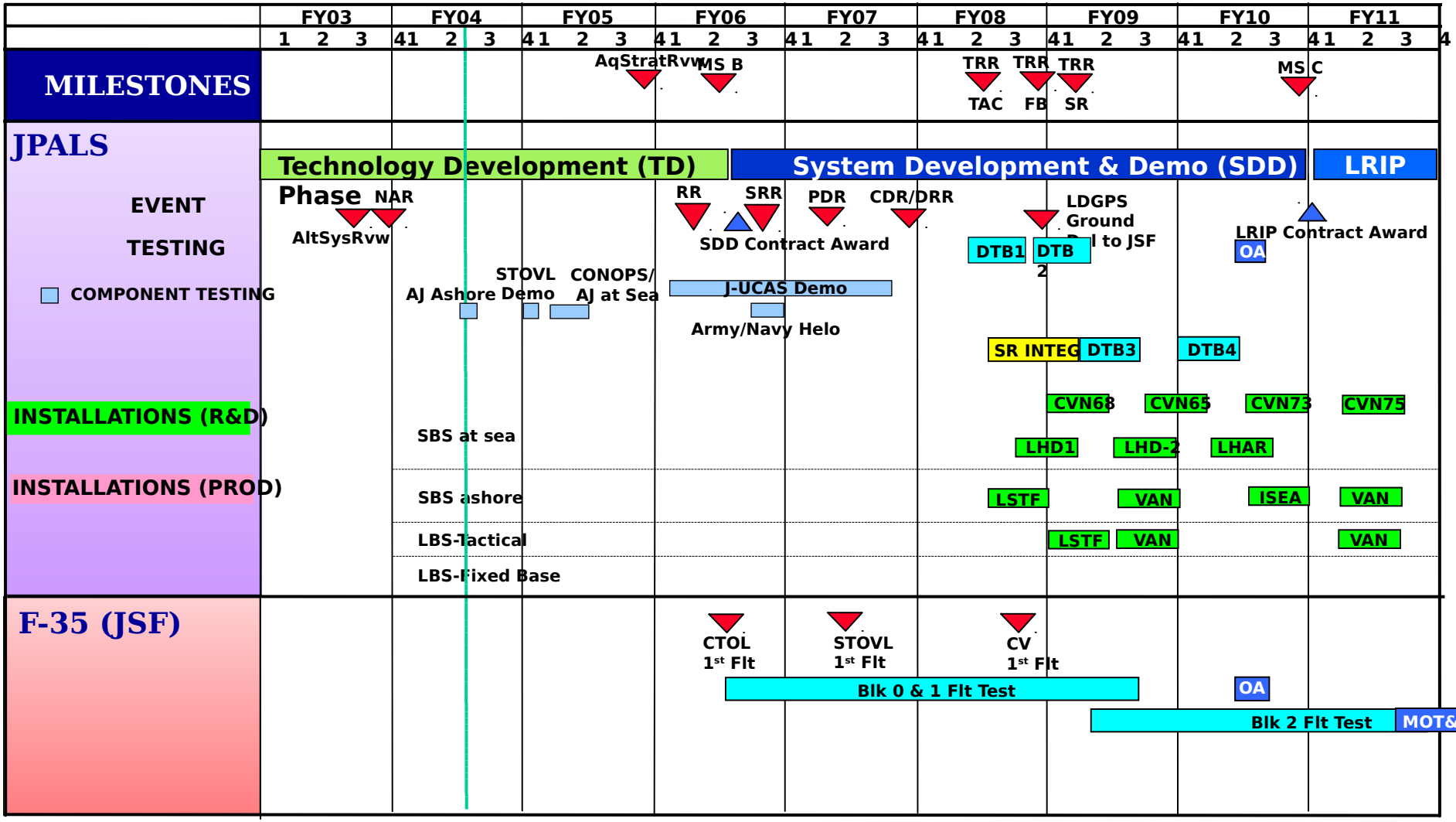
JPALS

Shipboard Relative GPS (Navy JPALS)
Local Differential GI (USAF Lead)

ATC and CID Functions Supporting Phases of Flight



JPALS Notional Schedule



PMA-213 Technical Needs

- **Enhanced Data Link Performance in multipath and interference**
- **Voice recognition and synthesis capability for vehicle autonomy and Air Traffic Management**
- **ATC voice recognition and text generation**
- **Advanced Radar Identification System**
- **BIT prognostics for land and sea ATC electronic systems**
- **Enhanced AN/SPN-46 system performance in interference environment**
- **Reduced Scale Mode 5 transponder**
- **Radar system multipath reduction**
- **Data Link Communication Control**